Table CE4-1e. Water-Heating Energy Expenditures in U.S. Households by Climate Zone, 2001

	atc 201	ie, 200 i									
Total RSE Column Factor: 0.4		Climate Zone ¹									
			2,000 CDD								
	Total	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	or More and Fewer than 4,000 HDD	RSE Row Factors				
									Million Households		
Total U.S. Households	107.0 Q 106.9 0.2 106.7 106.5	9.2 Q 9.2 Q 9.2 9.2	28.6 Q 28.6 Q 28.6 28.6	24.0 Q 24.0 Q 24.0 24.0	21.0 Q 20.9 Q 20.9 20.8	24.1 Q 24.0 Q 24.0 23.9	8.1 NF 8.1 90.3 8.1 8.1				
Number of Households with Water Heating, Major Fuels Used: Electricity Natural Gas Fuel Oil LPG	41.6 58.2 4.7	4.1 3.8 0.8	7.4 19.2 1.5	8.6 12.4 2.4	8.6 12.2 Q	13.0 10.6 Q	10.3 8.9 20.0				
	3.0 0.6 0.8 0.6 0.5 0.5 27 Billion Dollars ^a										
Water-Heating Expenditures, Major											
Fuels Used: Electricity	8.47 11.31 1.14 0.69 21.61	0.84 0.58 0.24 0.14 1.79	1.45 3.59 0.38 0.19 5.62	1.67 2.47 0.51 0.13 4.79	1.70 2.58 Q 0.11 4.39	2.81 2.08 Q 0.12 5.02	11.2 9.7 21.5 26.6 7.0				
	Dollars per Household ^a										
Average Water-Heating Expenditures per Household											
Using a Major Fuel ² For Main Water Heating -	203 203	196 196	196 196	200 200	210 211	209 210	2.6 2.6				
	Million Households										
Number of Households, Where the Main Water-Heating Fuel Is: Electricity Natural Gas Fuel Oil LPG Does Not Heat Water	40.8 58.0 4.6 2.9 Q	4.0 3.7 0.8 0.6 Q	7.3 19.1 1.4 0.8 Q	8.5 12.4 2.4 0.6 Q	8.1 12.2 Q 0.5 Q	12.8 10.6 Q 0.4 Q	10.4 8.9 20.6 27.7 NF				
	Dollars per Household ^a										
Water-Heating Expenditures per Household, ⁴ Where the Main Water-Heating Fuel Is:	200	200	400	405	242	242					
Electricity Natural Gas Fuel Oil LPG	208 194 243 233	209 153 289 239	198 187 266 242	195 199 213 207	210 211 Q 219	219 196 Q 261	3.3 3.7 5.5 9.6				

See footnotes at end of table.

Table CE4-1e. Water-Heating Energy Expenditures in U.S. Households by Climate Zone, 2001 (Continued)

		Climate Zone ¹						
			2,000 CDD or More					
	Total	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	and Fewer than 4,000 HDD	RSE Row Factors	
RSE Column Factor:	0.4							
		N	umber of Househo	old Members (NH	M) per Household	5		
Number of Household Members per Household, Where the Main Water-Heating Fuel Is:								
Electricity	2.4	2.6	2.3	2.5	2.5	2.4	3.1	
Natural Gas	2.7	2.4	2.6	2.5	3.0	2.7	3.1	
Fuel Oil LPG	2.4 2.6	2.4 2.6	2.5 2.6	2.4 2.3	Q 2.2	Q 3.3	6.0 9.3	
	Water-Heating Intensity ^{5,a} (Dollars÷NHM)							
•				<u> </u>				
Water-Heating Intensity, Where the Main Water-Heating Fuel Is:								
Electricity	85	81	86	80	84	91	3.2	
Natural Gas	73	63	73	79	70	72	3.7	
Fuel Oil	101 91	119 92	109 94	90 90	Q 99	Q 79	7.2 12.5	
							- 1	

¹ One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

NF = No applicable RSE row factor.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

Includes a small amount of kerosene use for water heating.

Includes only the water-heating expenditures of the water-heating fuel. Not included are: 1) the expenditures of the main water-heating fuel for uses other than water heating; 2) the expenditures of the main water-heating fuel where it is the secondary, and not the main, water-heating fuel, and; 3) the expenditures of other fuels that are used as secondary water-heating fuels.

Averages are for those households using each of the main water-heating fuels.

a The row factor in this section is underestimated because it contains no error for estimating the end-use.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

[•] See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2001 Residential Energy Consumption Survey.